

(LD 118)

OCTOBER 2013

Sub. Code: 2015

**M.D. DEGREE EXAMINATION
BRANCH IV – MICROBIOLOGY
PAPER – II – SYSTEMATIC BACTERIOLOGY
Q.P. Code : 202015**

Time: Three Hours

Maximum: 100 marks

I. Essay: (2X10=20)

1. List the bacterial causes of sexually transmitted diseases. Describe in detail the laboratory diagnosis of syphilis. Mention the merits and demerits of the various tests available.
2. Classify Mycobacteria. Discuss the pathogenesis, lab diagnosis and treatment of pulmonary tuberculosis.

II. Short Questions: (8X5=40)

1. HACEK organisms.
2. Helicobacter pylori.
3. Shiga toxin.
4. Halophilic vibrios.
5. Melioidosis.
6. Nontyphoidal salmonellosis.
7. Actinomycosis.
8. CAMP test.

III. Reasoning Out: (4X5=20)

1. XLD is better than DCA for faeces culture.
2. Co-agglutination reaction is commonly used for grouping of beta haemolytic streptococci.
3. Diphtheroids must not be rejected as contaminants in CSF culture without careful examination.
4. Oxacillin is used as a marker for penicillin susceptibility by disc diffusion methods for Streptococcus pneumoniae.

IV. Very Short Answers: (10X2=20)

1. List the virulence factors of Staphylococcus aureus.
2. Name four colony morphologies of Pseudomonas spp.
3. Classify spirochaetes.
4. Special characteristics of Enterococcus.
5. Name four coagulase negative Staphylococci.
6. Name four agents of pyogenic meningitis.
7. List two atypical mycobacteria which cause skin infection.
8. Non sporing anaerobes.
9. NAG vibrios.
10. Waterhouse – Friedrichsen syndrome.
